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RAW SEQUENCE LISTING

DATE: 09/27/2004

PATENT APPLICATION: US/10/796,719

TIME: 11:32:11

Input Set : A:\14184-043001.txt

Output Set: N:\CRF4\09272004\J796719.raw

4 <110> APPLICANT: Currie, Mark G.
 5 Mahajan-Miklos, Shalina
 8 <120> TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR THE
 9 TREATMENT OF GASTROINTESTINAL DISORDERS
 12 <130> FILE REFERENCE: 14184-043001
 14 <140> CURRENT APPLICATION NUMBER: US 10/796,719
 15 <141> CURRENT FILING DATE: 2004-03-09
 17 <150> PRIOR APPLICATION NUMBER: US 10/766,735
 18 <151> PRIOR FILING DATE: 2004-01-28
 20 <150> PRIOR APPLICATION NUMBER: US 60/443,098
 21 <151> PRIOR FILING DATE: 2003-01-28
 23 <150> PRIOR APPLICATION NUMBER: US 60/471,288
 24 <151> PRIOR FILING DATE: 2003-05-15
 26 <150> PRIOR APPLICATION NUMBER: US 60/519,460
 27 <151> PRIOR FILING DATE: 2003-11-12
 29 <160> NUMBER OF SEQ ID NOS: 149
 31 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 33 <210> SEQ ID NO: 1
 34 <211> LENGTH: 19
 35 <212> TYPE: PRT
 36 <213> ORGANISM: Escherichia coli
 38 <400> SEQUENCE: 1
 39 Asn Ser Ser Asn Tyr Cys Cys Glu Leu Cys Cys Asn Pro Ala Cys Thr
 40 1 5 10 15
 41 Gly Cys Tyr
 44 <210> SEQ ID NO: 2
 45 <211> LENGTH: 18
 46 <212> TYPE: PRT
 47 <213> ORGANISM: Escherichia coli
 49 <400> SEQUENCE: 2
 50 Asn Thr Phe Tyr Cys Cys Glu Leu Cys Cys Asn Pro Ala Cys Ala Gly
 51 1 5 10 15
 52 Cys Tyr
 55 <210> SEQ ID NO: 3
 56 <211> LENGTH: 18
 57 <212> TYPE: PRT
 58 <213> ORGANISM: Escherichia coli
 60 <400> SEQUENCE: 3
 61 Asn Thr Phe Tyr Cys Cys Glu Leu Cys Cys Tyr Pro Ala Cys Ala Gly
 62 1 5 10 15
 63 Cys Asn
 66 <210> SEQ ID NO: 4
 67 <211> LENGTH: 18

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68 <212> TYPE: PRT
69 <213> ORGANISM: Citrobacter freundii
71 <400> SEQUENCE: 4
72 Asn Thr Phe Tyr Cys Cys Glu Leu Cys Cys Asn Pro Ala Cys Ala Gly
73 1 5 10 15
74 Cys Tyr
77 <210> SEQ ID NO: 5
78 <211> LENGTH: 30
79 <212> TYPE: PRT
80 <213> ORGANISM: Yersinia enterocolitica
82 <400> SEQUENCE: 5
83 Gln Ala Cys Asp Pro Pro Ser Pro Pro Ala Glu Val Ser Ser Asp Trp
84 1 5 10 15
85 Asp Cys Cys Asp Val Cys Cys Asn Pro Ala Cys Ala Gly Cys
86 20 25 30
88 <210> SEQ ID NO: 6
89 <211> LENGTH: 30
90 <212> TYPE: PRT
91 <213> ORGANISM: Yersinia enterocolitica
93 <400> SEQUENCE: 6
94 Lys Ala Cys Asp Thr Gln Thr Pro Ser Pro Ser Glu Glu Asn Asp Asp
95 1 5 10 15
96 Trp Cys Cys Glu Val Cys Cys Asn Pro Ala Cys Ala Gly Cys
97 20 25 30
99 <210> SEQ ID NO: 7
100 <211> LENGTH: 53
101 <212> TYPE: PRT
102 <213> ORGANISM: Yersinia enterocolitica
104 <400> SEQUENCE: 7
105 Gln Glu Thr Ala Ser Gly Gln Val Gly Asp Val Ser Ser Ser Thr Ile
106 1 5 10 15
107 Ala Thr Glu Val Ser Glu Ala Glu Cys Gly Thr Gln Ser Ala Thr Thr
108 20 25 30
109 Gln Gly Glu Asn Asp Trp Asp Trp Cys Cys Glu Leu Cys Cys Asn Pro
110 35 40 45
111 Ala Cys Phe Gly Cys
112 50
114 <210> SEQ ID NO: 8
115 <211> LENGTH: 16
116 <212> TYPE: PRT
117 <213> ORGANISM: Yersinia kristensenii
119 <400> SEQUENCE: 8
120 Ser Asp Trp Cys Cys Glu Val Cys Cys Asn Pro Ala Cys Ala Gly Cys
121 1 5 10 15
123 <210> SEQ ID NO: 9
124 <211> LENGTH: 17
125 <212> TYPE: PRT
126 <213> ORGANISM: Vibrio cholerae
128 <400> SEQUENCE: 9

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129 Ile Asp Cys Cys Glu Ile Cys Cys Asn Pro Ala Cys Phe Gly Cys Leu
130 1          5          10          15
131 Asn
134 <210> SEQ ID NO: 10
135 <211> LENGTH: 17
136 <212> TYPE: PRT
137 <213> ORGANISM: Vibrio mimicus
139 <400> SEQUENCE: 10
140 Ile Asp Cys Cys Glu Ile Cys Cys Asn Pro Ala Cys Phe Gly Cys Leu
141 1          5          10          15
142 Asn
145 <210> SEQ ID NO: 11
146 <211> LENGTH: 18
147 <212> TYPE: PRT
148 <213> ORGANISM: Escherichia coli
150 <400> SEQUENCE: 11
151 Asn Thr Phe Tyr Cys Cys Glu Leu Cys Cys Asn Pro Ala Cys Ala Pro
152 1          5          10          15
153 Cys Tyr
156 <210> SEQ ID NO: 12
157 <211> LENGTH: 13
158 <212> TYPE: PRT
159 <213> ORGANISM: Vibrio cholerae
161 <400> SEQUENCE: 12
162 Ile Asp Cys Cys Glu Ile Cys Cys Asn Pro Ala Cys Phe
163 1          5          10
165 <210> SEQ ID NO: 13
166 <211> LENGTH: 14
167 <212> TYPE: PRT
168 <213> ORGANISM: Vibrio cholerae
170 <400> SEQUENCE: 13
171 Ile Asp Cys Cys Glu Ile Cys Cys Asn Pro Ala Cys Phe Gly
172 1          5          10
174 <210> SEQ ID NO: 14
175 <211> LENGTH: 17
176 <212> TYPE: PRT
177 <213> ORGANISM: Vibrio mimicus
179 <400> SEQUENCE: 14
180 Ile Asp Cys Cys Glu Ile Cys Cys Asn Pro Ala Cys Phe Gly Cys Leu
181 1          5          10          15
182 Asn
185 <210> SEQ ID NO: 15
186 <211> LENGTH: 17
187 <212> TYPE: PRT
188 <213> ORGANISM: Vibrio mimicus
190 <400> SEQUENCE: 15
191 Ile Asp Arg Cys Glu Ile Cys Cys Asn Pro Ala Cys Phe Gly Cys Leu
192 1          5          10          15
193 Asn

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RAW SEQUENCE LISTING

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196 <210> SEQ ID NO: 16
197 <211> LENGTH: 16
198 <212> TYPE: PRT
199 <213> ORGANISM: Yersinia enterocolitica
201 <400> SEQUENCE: 16
202 Asp Trp Asp Cys Cys Asp Val Cys Cys Asn Pro Ala Cys Ala Gly Cys
203 1 5 10 15
205 <210> SEQ ID NO: 17
206 <211> LENGTH: 16
207 <212> TYPE: PRT
208 <213> ORGANISM: Yersinia enterocolitica
210 <400> SEQUENCE: 17
211 Asp Trp Asp Cys Cys Asp Val Cys Cys Asn Pro Ala Cys Ala Gly Cys
212 1 5 10 15
214 <210> SEQ ID NO: 18
215 <211> LENGTH: 17
216 <212> TYPE: PRT
217 <213> ORGANISM: Yersinia enterocolitica
219 <400> SEQUENCE: 18
220 Asn Asp Asp Trp Cys Cys Glu Val Cys Cys Asn Pro Ala Cys Ala Gly
221 1 5 10 15
222 Cys
225 <210> SEQ ID NO: 19
226 <211> LENGTH: 16
227 <212> TYPE: PRT
228 <213> ORGANISM: Yersinia enterocolitica
230 <400> SEQUENCE: 19
231 Trp Asp Trp Cys Cys Glu Leu Cys Cys Asn Pro Ala Cys Phe Gly Cys
232 1 5 10 15
234 <210> SEQ ID NO: 20
235 <211> LENGTH: 72
236 <212> TYPE: PRT
237 <213> ORGANISM: Escherichia coli
239 <400> SEQUENCE: 20
240 Met Lys Lys Leu Met Leu Ala Ile Phe Ile Ser Val Leu Ser Phe Pro
241 1 5 10 15
242 Ser Phe Ser Gln Ser Thr Glu Ser Leu Asp Ser Ser Lys Glu Lys Ile
243 20 25 30
244 Thr Leu Glu Thr Lys Lys Cys Asp Val Val Lys Asn Asn Ser Glu Lys
245 35 40 45
246 Lys Ser Glu Asn Met Asn Asn Thr Phe Tyr Cys Cys Glu Leu Cys Cys
247 50 55 60
248 Asn Pro Ala Cys Ala Gly Cys Tyr
249 65 70
251 <210> SEQ ID NO: 21
252 <211> LENGTH: 72
253 <212> TYPE: PRT
254 <213> ORGANISM: Escherichia coli
256 <400> SEQUENCE: 21

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```

257 Met Lys Lys Ser Ile Leu Phe Ile Phe Leu Ser Val Leu Ser Phe Ser
258 1 5 10 15
259 Pro Phe Ala Gln Asp Ala Lys Pro Val Glu Ser Ser Lys Glu Lys Ile
260 20 25 30
261 Thr Leu Glu Ser Lys Lys Cys Asn Ile Ala Lys Lys Ser Asn Lys Ser
262 35 40 45
263 Gly Pro Glu Ser Met Asn Ser Ser Asn Tyr Cys Cys Glu Leu Cys Cys
264 50 55 60
265 Asn Pro Ala Cys Thr Gly Cys Tyr
266 65 70
268 <210> SEQ ID NO: 22
269 <211> LENGTH: 71
270 <212> TYPE: PRT
271 <213> ORGANISM: Yersinia enterocolitica
273 <400> SEQUENCE: 22
274 Met Lys Lys Ile Val Phe Val Leu Val Leu Met Leu Ser Ser Phe Gly
275 1 5 10 15
276 Ala Phe Gly Gln Glu Thr Val Ser Gly Gln Phe Ser Asp Ala Leu Ser
277 20 25 30
278 Thr Pro Ile Thr Ala Glu Val Tyr Lys Gln Ala Cys Asp Pro Pro Leu
279 35 40 45
280 Pro Pro Ala Glu Val Ser Ser Asp Trp Asp Cys Cys Asp Val Cys Cys
281 50 55 60
282 Asn Pro Ala Cys Ala Gly Cys
283 65 70
285 <210> SEQ ID NO: 23
286 <211> LENGTH: 54
287 <212> TYPE: PRT
288 <213> ORGANISM: Artificial Sequence
290 <220> FEATURE:
291 <223> OTHER INFORMATION: Synthetically generated amino terminal leader
292 sequence
294 <400> SEQUENCE: 23
295 Met Lys Lys Ser Ile Leu Phe Ile Phe Leu Ser Val Leu Ser Phe Ser
296 1 5 10 15
297 Pro Phe Ala Gln Asp Ala Lys Pro Val Glu Ser Ser Lys Glu Lys Ile
298 20 25 30
299 Thr Leu Glu Ser Lys Lys Cys Asn Ile Ala Lys Lys Ser Asn Lys Ser
300 35 40 45
301 Gly Pro Glu Ser Met Asn
302 50
304 <210> SEQ ID NO: 24
305 <211> LENGTH: 53
306 <212> TYPE: PRT
307 <213> ORGANISM: Artificial Sequence
309 <220> FEATURE:
310 <223> OTHER INFORMATION: Synthetically generated peptide
312 <400> SEQUENCE: 24
313 Met Lys Lys Ser Ile Leu Phe Ile Phe Leu Ser Val Leu Ser Phe Ser

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RAW SEQUENCE LISTING ERROR SUMMARY
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Input Set : A:\14184-043001.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:66; Xaa Pos. 1,2,3,4,5,9,20,21
Seq#:119; Xaa Pos. 1,2,3,4,5,8,9,12,13,14,16,17,19,20,21
Seq#:120; Xaa Pos. 1,2,3,4,5,8,9,16,19,20,21
Seq#:144; Xaa Pos. 1,2,3,4,5,8,9,12,13,14,16,17,19,20,21
Seq#:145; Xaa Pos. 1,2,3,4,5,8,9,12,13,14,16,17,19,20,21
Seq#:146; Xaa Pos. 1,2,3,4,5,8,9,12,13,14,16,17,19,20,21
Seq#:147; Xaa Pos. 1,2,3,4,5,8,9,12,13,14,16,17,19,20,21
Seq#:148; Xaa Pos. 1,2,3,4,5,8,9,12,13,14,16,17,19,20,21
Seq#:149; Xaa Pos. 1,2,3,4,5,8,9,16,19,20,21

VERIFICATION SUMMARY

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Input Set : A:\14184-043001.txt

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L:857 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:864 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:66
L:871 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:66
L:877 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:66
L:881 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:66
L:882 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:0
L:884 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:16
L:1571 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:1575 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:119
L:1580 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:119
L:1584 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:119
L:1585 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:119 after pos.:0
L:1587 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:119 after pos.:16
L:1598 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:1604 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:120
L:1608 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:120
L:1612 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:120
L:1616 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:120
L:1620 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:120
L:1624 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:120
L:1625 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120 after pos.:0
L:1627 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120 after pos.:16
L:1914 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:1918 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:144
L:1922 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:144
L:1926 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:144
L:1930 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:144
L:1934 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:144
L:1938 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:144
L:1942 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:144
L:1946 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:144
L:1950 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:144
L:1954 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:144
L:1955 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:144 after pos.:0
L:1957 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:144 after pos.:16
L:1967 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:1972 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:145
L:1976 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:145
L:1980 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:145
L:1984 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:145
L:1989 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:145
L:1993 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:145
L:1997 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:145
L:2002 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:145
L:2006 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:145
L:2010 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:145
L:2014 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:145
L:2020 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:145

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Input Set : A:\14184-043001.txt

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L:2021 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:145 after pos.:0
L:2023 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:145 after pos.:16
L:2034 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:2038 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:146
L:2042 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:146
L:2046 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:146
L:2050 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:146
L:2054 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:146
L:2058 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:146
L:2064 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:146
L:2068 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:146
L:2072 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:146
L:2076 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:146
L:2077 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:146 after pos.:0
L:2079 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:146 after pos.:16
L:2090 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:2096 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:147
L:2100 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:147
L:2105 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:147
L:2109 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:147
L:2113 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:147
L:2118 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:147
L:2122 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:147
L:2126 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:147
L:2130 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:147
L:2135 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:147
L:2139 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:147
L:2140 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:147 after pos.:0
L:2142 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:147 after pos.:16
L:2153 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:2157 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:148
L:2161 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:148
L:2165 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:148
L:2169 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:148
L:2173 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:148
L:2177 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:148
L:2181 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:148
L:2185 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:148
L:2189 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:148
L:2193 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:148
L:2194 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:148 after pos.:0
L:2196 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:148 after pos.:16
L:2207 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:2211 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:149
L:2215 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:149
L:2219 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:149
L:2223 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:149
L:2227 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:149
L:2231 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:149

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L:2232 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:149 after pos.:0
L:2234 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:149 after pos.:16